



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

170954

Mary A. Gade, Director

217/782-2113

P. O. Box 19506, Springfield, IL 62794-9506

OPERATING PERMIT FOR SMALLER SOURCE

PERMITTEE

Arrow Gear Company
Attn: Harry Hartzell
2301 Curtiss Street
Downers Grove, Illinois 60515-4036

RECEIVED

APR 28 1997

ARROW GEAR CO

Application No.: 73060221

I.D. No.: 043030ABG

Applicant's Designation:

Date Received: March 21, 1997

Subject: Gear Manufacturing

Date Issued: April 22, 1997

Expiration Date: See Condition 1.

Location: 2301 Curtiss Street, Downers Grove

Permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of a heat treat oven, two (2) air make-up units, a heat treat washer, a quench press, a shot blaster, a hand blaster, grinding operations, an electric furnace, three (3) broach machine, a large parts washer and a small parts washer as described in the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. Emissions and operation of equipment shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Maximum Firing Rate (mmBtu/hr)</u>	<u>E M I S S I O N S</u>			
		<u>Nitrogen Oxides</u>		<u>Carbon Monoxide</u>	
		<u>Lb/Hr</u>	<u>Ton/Yr</u>	<u>Lb/Hr</u>	<u>Ton/Yr</u>
Air make-up 1	3.6	0.36	1.58	0.08	0.35
Air make-up 2	3.6	0.36	1.58	0.08	0.35
Heat treat washer	0.36	0.04	0.18	0.01	0.04
Heat treat oven	1.2	0.12	<u>0.53</u>	0.03	<u>0.13</u>
			3.87		0.87

These limits are based on maximum firing rate, maximum operating hours of 8,760 hours per year and standard emission factors of 100 lb NO_x per mmscf and 21 lb of CO per mmscf. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. Natural gas shall be the only fuel(s) fired in the two air make-up units, the heat treat washer and the heat treat oven.
2. Emissions and operation of equipment shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Maximum Material Usage (Lb/Hr)</u>	<u>Maximum VOM Content (%by Wt.)</u>	<u>Volatile Organic</u>	
			<u>Material Emissions</u>	
			<u>(Lb/Hr)</u>	<u>(Ton/Yr)</u>
Large part washer	0.64	100	0.64	2.80
Small part washer	0.43	100	0.43	1.88

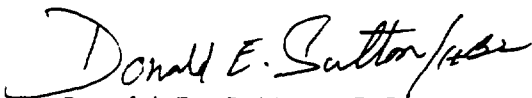
These limits are based on maximum material usage, maximum VOM content and maximum operating hours of 8,760 hours per year. Compliance with annual limits shall be determined from a running total of 12 months of data.



3. This permit is issued based on negligible emissions of particulate matter from the heat treat oven, the two air make-up units, the heat treat washer, the quench press, shot blaster, grinding operations, electric furnace, hand blaster, large parts washer, small parts washer and the three branch machines. For this purpose emissions from each emission source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
- 4a. The Permittee shall maintain records of the following items:
 - i. Maximum firing rate of each fuel fired combustion unit (mmBtu/hr).
 - ii. List, identification, usage and VOM content of all VOM containing materials used.
 - iii. VOM emissions (lb/month and ton/yr).
- b. These records shall be retained for three years and shall be available for inspection and copying by the Illinois EPA.

Please note, in response to the request concerning a Federally Enforceable State Operating Permit (FESOP), the Illinois EPA has determined that the potential to emit for your facility appears to be below major threshold levels and that the facility is not subject to the new Clean Air Act permitting requirements at this time. A FESOP is also not required.

If you have any questions on this, please call Ernest L. Kierbach at 217/782-2113.



Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:ELK:sac

cc: Region 1



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD, P.O. BOX 19276
SPRINGFIELD, IL 62794-9276

**STANDARD CONDITIONS
FOR
SMALLER SOURCE OPERATING PERMITS**

January 1, 1994

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) [415 ILCS 5/39] grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

1. The issuance of this Permit does not release the Permittee from compliance with State and federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or with applicable local laws, ordinances and regulations.
2. The Agency has issued this Permit based upon the information submitted by the Permittee in the Permit Application. Any misinformation, false statement or misrepresentation in the Application shall be grounds for the revocation under 35 Ill. Adm. Code 201.207.
3. The total emissions of all regulated air pollutants from this source shall be less than 25 tons per year or a lower amount as specified in a special condition of this Permit.
4.
 - a. The Permittee shall not authorize, cause, direct or allow any modification, as defined in 35 Ill. Adm. Code 201.102, of equipment, operations or practices which are reflected in the Permit Application as submitted until the appropriate permit is obtained from the Agency.
 - b. The Permittee shall obtain a new or revised permit under 35 Ill. Adm. Code 201 Subpart D or under Section 39.5 of the Act, if the source no longer meets the applicability criteria of 35 Ill. Adm. Code 201.180 because of changes in emissions units or control equipment.
 - c. The Permittee shall obtain a revised permit prior to any of the following changes at the source:
 - i. An increase in emissions above the amount the source is permitted to emit; or
 - ii. A modification; or
 - iii. A change in operations which will result in the source's noncompliance with a condition in the existing permit; or
 - iv. A change in ownership, company name, or address, so that the Application or Permit is no longer accurate.
5.
 - a. This Permit only covers emission units and control equipment while physically present at the indicated source location. Unless the Permit specifically provides for equipment relocation, this Permit is void for an item of equipment on the day it is removed from the permitted location or if all equipment is removed.
 - b. The Permittee shall notify the Agency in writing to withdraw the Permit if all operations at the source have been permanently discontinued.

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6. The Permittee shall allow any duly authorized agent of the Agency, upon the presentation of credentials, at reasonable times:
 - a. To enter the Permittee's property where actual or potential effluent, emission or noise units are located or where any activity is to be conducted pursuant to this Permit;
 - b. To have access to and to copy any records required to be kept under the terms and conditions of this Permit;
 - c. To inspect, including during any hours of operation of equipment constructed or operated under this Permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this Permit;
 - d. To obtain and remove samples of any discharge or emission of pollutants; and
 - e. To enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any activity, discharge or emission authorized by this Permit.
7. The issuance of this Permit:
 - a. Shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located;
 - b. Does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the source;
 - c. Does not take into consideration or attest to the structural stability of any unit or part of the project; and
 - d. In no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or source.
8. The Permittee shall maintain all equipment at the source covered under this Permit in such a manner that the performance of such equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereunder.
9. The Permittee shall maintain a maintenance record on the premises for each item of air pollution control equipment. This record shall be made available to any agent of the Agency at any time during normal working hours and/or operating hours. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.
10. No person shall cause or allow startup of any emission unit or continued operation during malfunction or breakdown of any emission unit or related air pollution control equipment if such startup or continued operation would cause a violation of an applicable emission standard or permit limitation if such operation is not allowed as a special condition of this Permit, as required by 35 Ill. Adm. Code 201.149.
11. The Permittee shall submit an Annual Emission Report as required by 35 Ill. Adm. Code 201.302 and 35 Ill. Adm. Code Part 254.
12. The Permittee shall pay the annual site fee for the source in accordance with Section 9.5 of the Act.

**Directory
Environmental Protection Agency
Bureau of Air**

September 1, 1992

For assistance in preparing a permit application,
contact the Permit Section:

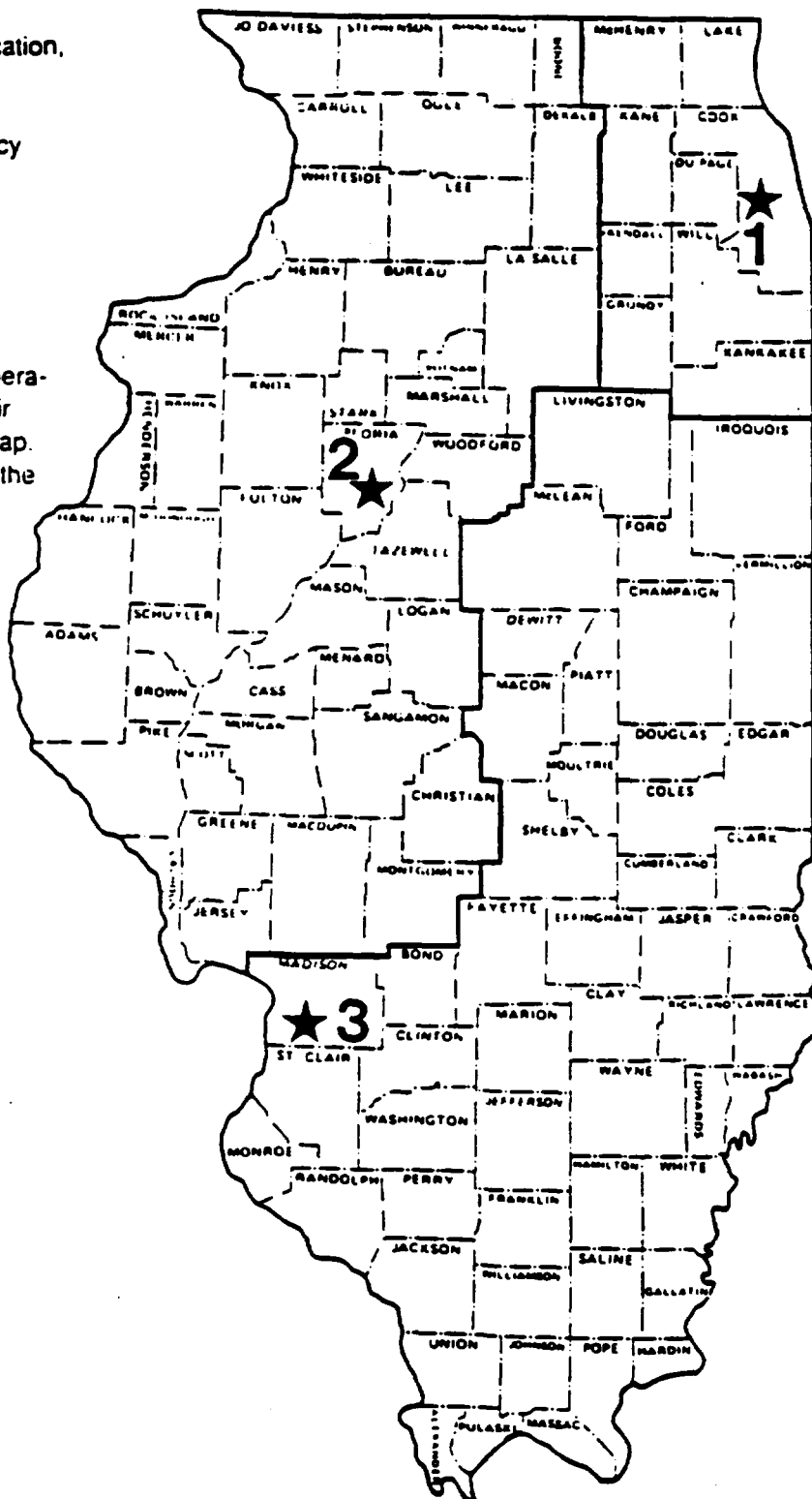
Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section
2200 Churchill Road
Springfield, Illinois 62706
217/782-2113

Or contact a regional office of the Field Operations Section. The regional offices and their areas of responsibility are shown on the map. The addresses and telephone numbers of the regional offices are as follows:

Illinois EPA
Region 1
Intercontinental Center
1701 South 1st Avenue
Maywood, Illinois 60153
708/531-5900

Illinois EPA
Region 2
5415 North University
Peoria, Illinois 61614
309/693-5461

Illinois EPA
Region 3
2009 Mall Street
Collinsville, Illinois 62234
618/346-5120



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